

ABSTRACT

Drum type washing machine including a tub of plastic having a wall for holding washing water therein and mounting a driving part thereon, a drum rotatably arranged inside of the tub, a shaft passed through the tub and connected to the drum for transmission of a driving power from a motor to the drum, at least one bearing for supporting the shaft, a bearing housing having a sleeve form of bearing supporting part, and a stator fastening part extended in a radial direction from the bearing supporting part, wherein both of the bearing supporting part and the stator fastening part are inserted in a tub rear wall, while stator fastening holes in the stator fastening part are exposed, a rotor engaged to a rear end part of the shaft to form the motor together with the stator, and the stator mounted on the stator fastening part of the bearing housing with fastening members on an inner side of the rotor to form the motor together with the rotor, wherein the stator includes an annular helical type core having multiple layers formed by winding a steel plate having tooth portions and a base part in a helix starting from a bottom layer to a top layer, an insulator having the helical type core encapsulated therein, a coil wound on the tooth portions, and fastening parts formed as a unit with the insulator, having fastening holes projected toward an inside of the helical type core for fastening the stator to the bearing housing, thereby reducing a weight of required material, simplifying an assembly process, and assure stable mounting of the stator on the tub.